

SEQUENCE LISTING

<110> Ruan, Yong-Ling
Furbank, Robert T.
Danny, Llewellyn J.

<120> Modification of sucrose synthase gene expression in plant tissue and uses therefor

<130> GHSUSY WO1

<150> 60/251852

<151> 2000-12-08

<160> 6

<170> PatentIn version 3.1

<210> 1

<211> 2625

<212> DNA

<213> Gossypium hirsutum

<220>

<221> misc_feature

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<223> n = any nucleotide (a,g,c,t)

<220>

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<223>

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| atg gct gag cgt gct ctc act cgc gtc cac agt ctc cgt gag cgt ttg | 48 |
| Met Ala Glu Arg Ala Leu Thr Arg Val His Ser Leu Arg Glu Arg Leu | |
| 1 5 10 15 | |

| | |
|---|----|
| gat gag acc ctt ctt gct cac agg aac gag att ttg gcc ttg ctc tca | 96 |
| Asp Glu Thr Leu Leu Ala His Arg Asn Glu Ile Leu Ala Leu Leu Ser | |
| 20 25 30 | |

| | |
|---|-----|
| agg atc gag ggc aaa gga aaa gga att ctg caa cac cat caa att att | 144 |
| Arg Ile Glu Gly Lys Gly Lys Gly Ile Leu Gln His His Gln Ile Ile | |
| 35 40 45 | |

| | |
|---|-----|
| cta gag ttt gaa gct atc cct gaa gag aac aga aag aag ctc gct aat | 192 |
| Leu Glu Phe Glu Ala Ile Pro Glu Glu Asn Arg Lys Lys Leu Ala Asn | |
| 50 55 60 | |

| | |
|---|-----|
| ggg gca ttt ttt gaa gta ttg aag gct agt cag gaa gcg atc gtg ttg | 240 |
| Gly Ala Phe Phe Glu Val Leu Lys Ala Ser Gln Glu Ala Ile Val Leu | |
| 65 70 75 80 | |

| | |
|---|-----|
| cct cca tgg gtt gca ctt gct gtt cgt cca agg cct ggt gtt tgg gag | 288 |
| Pro Pro Trp Val Ala Leu Ala Val Arg Pro Arg Pro Gly Val Trp Glu | |

| | 85 | 90 | 95 | |
|--|---|-----|-----|-----|
| | tac att aga gtg aat gtt cac gcc ctt gtt gtt gag gaa ctc act gtt | | | 336 |
| | Tyr Ile Arg Val Asn Val His Ala Leu Val Val Glu Glu Leu Thr Val | | | |
| | 100 | 105 | 110 | |
| | gct gag tat ctc cac ttc aag gaa gag ctt gtt gat gga agt tca aat | | | 384 |
| | Ala Glu Tyr Leu His Phe Lys Glu Glu Leu Val Asp Gly Ser Ser Asn | | | |
| | 115 | 120 | 125 | |
| | gga aac ttt gtt ttg gaa ttg gat ttt gag ccc ttc aac tca tca ttc | | | 432 |
| | Gly Asn Phe Val Leu Glu Leu Asp Phe Glu Pro Phe Asn Ser Ser Phe | | | |
| | 130 | 135 | 140 | |
| | ccc cgc cca act ctt tca aaa tcc att ggt aat ggt gtg gag ttc cta | | | 480 |
| | Pro Arg Pro Thr Leu Ser Lys Ser Ile Gly Asn Gly Val Glu Phe Leu | | | |
| | 145 | 150 | 155 | 160 |
| | aat cgt cac ctt tcg gca aaa ttg ttc cat gac aag gag agc atg cac | | | 528 |
| | Asn Arg His Leu Ser Ala Lys Leu Phe His Asp Lys Glu Ser Met His | | | |
| | 165 | 170 | 175 | |
| | ctt ttg ctc gaa ttc ctc aga gtc cat tgt cac aag ggc aag aac atg | | | 576 |
| | Pro Leu Leu Glu Phe Leu Arg Val His Cys His Lys Gly Lys Asn Met | | | |
| | 180 | 185 | 190 | |
| | atg ttg aat gac aga att cag aac ttg aat gct ctt caa cat gtt ttg | | | 624 |
| | Met Leu Asn Asp Arg Ile Gln Asn Leu Asn Ala Leu Gln His Val Leu | | | |
| | 195 | 200 | 205 | |
| | agg aaa gca gag gag tat ctt ggt acc cta cct cct gag aca cca tgt | | | 672 |
| | Arg Lys Ala Glu Glu Tyr Leu Gly Thr Leu Pro Pro Glu Thr Pro Cys | | | |
| | 210 | 215 | 220 | |
| | gcc gaa ttc gaa cac cgg ttc cag gaa atc ggt ttg gaa aga ggt tgg | | | 720 |
| | Ala Glu Phe Glu His Arg Phe Gln Glu Ile Gly Leu Glu Arg Gly Trp | | | |
| | 225 | 230 | 235 | 240 |
| | ggt gac acc gca gaa cgc gtg ctc gag atg atc caa ctc ctt ttg gat | | | 768 |
| | Gly Asp Thr Ala Glu Arg Val Leu Glu Met Ile Gln Leu Leu Leu Asp | | | |
| | 245 | 250 | 255 | |
| | ctt ctt gag gca act gat cct tgc acc ctt gag aag ttc ctt ggg aga | | | 816 |
| | Leu Leu Glu Ala Thr Asp Pro Cys Thr Leu Glu Lys Phe Leu Gly Arg | | | |
| | 260 | 265 | 270 | |
| | atc ccc atg gtg ttc aat gtt gtg att ctc act ccc cac gga tac ttc | | | 864 |
| | Ile Pro Met Val Phe Asn Val Val Ile Leu Thr Pro His Gly Tyr Phe | | | |
| | 275 | 280 | 285 | |
| | gct caa gac aat gtt ttg ggg tat ccc gac acc ggt ggg cag gtt gtt | | | 912 |
| | Ala Gln Asp Asn Val Leu Gly Tyr Pro Asp Thr Gly Gly Gln Val Val | | | |
| | 290 | 295 | 300 | |
| | tac atc ttg gat caa gtc cga gct ttg gag aat gag atg ctc ctc cgt | | | 960 |
| | Tyr Ile Leu Asp Gln Val Arg Ala Leu Glu Asn Glu Met Leu Leu Arg | | | |
| | 305 | 310 | 315 | 320 |

| | |
|---|------|
| ata aag caa caa gga ctc aac atc acc cct cga atc ctc att att act | 1008 |
| Ile Lys Gln Gln Gly Leu Asn Ile Thr Pro Arg Ile Leu Ile Ile Thr | |
| 325 330 335 | |
| aga ctt ctt cct gat gct gtc gga aca aca tgc ggt caa cga ctt gag | 1056 |
| Arg Leu Leu Pro Asp Ala Val Gly Thr Thr Cys Gly Gln Arg Leu Glu | |
| 340 345 350 | |
| aaa gta tac gga aca gag cac tcg gat att ctt cga gta ccc ttc aga | 1104 |
| Lys Val Tyr Gly Thr Glu His Ser Asp Ile Leu Arg Val Pro Phe Arg | |
| 355 360 365 | |
| aca gaa aag gga att gtt cga aaa tgg atc tca aga ttt gaa aaa gtc | 1152 |
| Thr Glu Lys Gly Ile Val Arg Lys Trp Ile Ser Arg Phe Glu Lys Val | |
| 370 375 380 | |
| tgg cca tac ttg gaa acc tac aca gag gat gtt gct cat gaa atc tcc | 1200 |
| Trp Pro Tyr Leu Glu Thr Tyr Thr Glu Asp Val Ala His Glu Ile Ser | |
| 385 390 395 400 | |
| aaa gag ttg cac ggc acg cca gat ctg atc atc gga aac nac agc gac | 1248 |
| Lys Glu Leu His Gly Thr Pro Asp Leu Ile Ile Gly Asn Xaa Ser Asp | |
| 405 410 415 | |
| ggc aat atc gtc gcc tcc ttg ctc gca cat aaa tta ggt gtc aca cag | 1296 |
| Gly Asn Ile Val Ala Ser Leu Leu Ala His Lys Leu Gly Val Thr Gln | |
| 420 425 430 | |
| ggc acc atc gcc cat gct ttg gag aag aca aaa tat cca gat tca gat | 1344 |
| Cys Thr Ile Ala His Ala Leu Glu Lys Thr Lys Tyr Pro Asp Ser Asp | |
| 435 440 445 | |
| atc tat tgg aag aag ctt gaa gac aaa tac cat ttc tct tgc caa ttt | 1392 |
| Ile Tyr Trp Lys Lys Leu Glu Asp Lys Tyr His Phe Ser Cys Gln Phe | |
| 450 455 460 | |
| aca gct gat ctt ttt gca atg aac cat aca gat ttc atc atc acc agt | 1440 |
| Thr Ala Asp Leu Phe Ala Met Asn His Thr Asp Phe Ile Ile Thr Ser | |
| 465 470 475 480 | |
| act ttc cag gaa att gca gga agc aag gac act gtt ggt caa tac gag | 1488 |
| Thr Phe Gln Glu Ile Ala Gly Ser Lys Asp Thr Val Gly Gln Tyr Glu | |
| 485 490 495 | |
| agc cac act gct ttc act ctt cct ggt ctc tac cgt gtt gta cat ggt | 1536 |
| Ser His Thr Ala Phe Thr Leu Pro Gly Leu Tyr Arg Val Val His Gly | |
| 500 505 510 | |
| atc gat gtg ttt gat ccc aaa ttc aac att gtt tcc cct ggt gct gat | 1584 |
| Ile Asp Val Phe Asp Pro Lys Phe Asn Ile Val Ser Pro Gly Ala Asp | |
| 515 520 525 | |
| atg gag ata tac ttc cct tac acc gaa gag aag cgg agg ttg aag cat | 1632 |
| Met Glu Ile Tyr Phe Pro Tyr Thr Glu Glu Lys Arg Arg Leu Lys His | |
| 530 535 540 | |
| ttc cat cct gag atc gaa gac ctt ctt tac acc aaa gtt gag aat gaa | 1680 |
| Phe His Pro Glu Ile Glu Asp Leu Leu Tyr Thr Lys Val Glu Asn Glu | |

| 545 | | 550 | | 555 | | 560 | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| gaa | cac | tta | tgt | gtg | ctc | aat | gac | cgc | aac | aag | cca | att | ctg | ttc | aca | 1728 |
| Glu | His | Leu | Cys | Val | Leu | Asn | Asp | Arg | Asn | Lys | Pro | Ile | Leu | Phe | Thr | |
| | | | | 565 | | | | | 570 | | | | | 575 | | |
| atg | cca | agg | ctt | gat | cgt | gtc | aag | aac | tta | acc | gga | ctc | gtc | gag | tgg | 1776 |
| Met | Pro | Arg | Leu | Asp | Arg | Val | Lys | Asn | Leu | Thr | Gly | Leu | Val | Glu | Trp | |
| | | | 580 | | | | | 585 | | | | | 590 | | | |
| tgc | ggc | aag | aac | cca | aag | ttg | cgt | gag | ttg | gct | aac | ctc | gta | gtt | gta | 1824 |
| Cys | Gly | Lys | Asn | Pro | Lys | Leu | Arg | Glu | Leu | Ala | Asn | Leu | Val | Val | Val | |
| | | 595 | | | | | 600 | | | | | 605 | | | | |
| ggt | ggt | gat | agg | cga | aag | gaa | tct | aaa | gat | ttg | gaa | gag | aag | gct | gaa | 1872 |
| Gly | Gly | Asp | Arg | Arg | Lys | Glu | Ser | Lys | Asp | Leu | Glu | Glu | Lys | Ala | Glu | |
| | 610 | | | | | 615 | | | | | 620 | | | | | |
| atg | aag | aaa | atg | ttt | gag | ctg | atc | gac | aag | tac | aac | ttg | aac | ggc | caa | 1920 |
| Met | Lys | Lys | Met | Phe | Glu | Leu | Ile | Asp | Lys | Tyr | Asn | Leu | Asn | Gly | Gln | |
| | 625 | | | | 630 | | | | | 635 | | | | | 640 | |
| ctc | aga | tgg | ata | tca | tct | caa | atg | aac | aga | atc | cga | aat | gtt | gaa | ctt | 1968 |
| Phe | Arg | Trp | Ile | Ser | Ser | Gln | Met | Asn | Arg | Ile | Arg | Asn | Val | Glu | Leu | |
| | | | | 645 | | | | | 650 | | | | | 655 | | |
| tac | cga | tac | att | tgc | gac | acg | aaa | ggt | gcc | ttt | gta | cag | cct | gca | ttg | 2016 |
| Tyr | Arg | Tyr | Ile | Cys | Asp | Thr | Lys | Gly | Ala | Phe | Val | Gln | Pro | Ala | Leu | |
| | | | 660 | | | | | 665 | | | | | 670 | | | |
| tat | gaa | gcc | ttt | gga | ttg | aca | gtt | gtg | gag | gca | atg | act | tgc | ggt | ttg | 2064 |
| Tyr | Glu | Ala | Phe | Gly | Leu | Thr | Val | Val | Glu | Ala | Met | Thr | Cys | Gly | Leu | |
| | | 675 | | | | | 680 | | | | | 685 | | | | |
| cca | aca | ttc | gca | acc | tgt | aac | ggt | gga | cca | gcc | gag | att | att | gtc | cat | 2112 |
| Pro | Thr | Phe | Ala | Thr | Cys | Asn | Gly | Gly | Pro | Ala | Glu | Ile | Ile | Val | His | |
| | 690 | | | | | 695 | | | | | 700 | | | | | |
| ggg | aaa | tct | ggt | ttc | aac | att | gat | cct | tac | cat | ggt | gat | caa | gct | gct | 2160 |
| Gly | Lys | Ser | Gly | Phe | Asn | Ile | Asp | Pro | Tyr | His | Gly | Asp | Gln | Ala | Ala | |
| | 705 | | | | 710 | | | | | 715 | | | | 720 | | |
| gac | ata | ctc | gtc | gat | ttc | ttt | gaa | aag | tgt | aag | aaa | gat | cca | tct | cac | 2208 |
| Asp | Ile | Leu | Val | Asp | Phe | Phe | Glu | Lys | Cys | Lys | Lys | Asp | Pro | Ser | His | |
| | | | | 725 | | | | | 730 | | | | | 735 | | |
| tgg | gat | aag | atc | tcc | caa | gga | ggc | ttg | aaa | cga | ata | gag | gag | aag | tat | 2256 |
| Trp | Asp | Lys | Ile | Ser | Gln | Gly | Gly | Leu | Lys | Arg | Ile | Glu | Glu | Lys | Tyr | |
| | | | 740 | | | | | 745 | | | | | 750 | | | |
| aca | tgg | aag | att | tac | tcg | gag | aga | cta | ttg | acc | ctg | aca | gga | gtg | tat | 2304 |
| Thr | Trp | Lys | Ile | Tyr | Ser | Glu | Arg | Leu | Leu | Thr | Leu | Thr | Gly | Val | Tyr | |
| | | 755 | | | | | 760 | | | | | 765 | | | | |
| gga | ttc | tgg | aag | cat | gtt | tcc | aac | ctt | gaa | cgc | cgt | gag | agt | cgt | cgt | 2352 |
| Gly | Phe | Trp | Lys | His | Val | Ser | Asn | Leu | Glu | Arg | Arg | Glu | Ser | Arg | Arg | |
| | 770 | | | | | 775 | | | | | 780 | | | | | |

tac ctt gag atg ttt tat gct ctt aag tac cgt aag ctg gct gaa tca 2400
Tyr Leu Glu Met Phe Tyr Ala Leu Lys Tyr Arg Lys Leu Ala Glu Ser
785 790 795 800

ggt cca ttg gca gag gag taa att gaa cct gtt aaa taa cat tgg gcc 2448
Val Pro Leu Ala Glu Glu Ile Glu Pro Val Lys His Trp Ala
805 810

ggt ttt tct tgg aga ata ata ttc tgt ttt gta att tca att gga gaa 2496
Gly Phe Ser Trp Arg Ile Ile Phe Cys Phe Val Ile Ser Ile Gly Glu
815 820 825 830

gct cct ttg tat ttc atc ttg tct ttt cct ttt cct ttt ttc gcc ggc 2544
Ala Pro Leu Tyr Phe Ile Leu Ser Phe Pro Phe Pro Phe Phe Ala Gly
835 840 845

att gtt tga aca tgg ggt tgt gcg ccc gtc aat tcc agt taa ata tgg 2592
Ile Val Thr Trp Gly Cys Ala Pro Val Asn Ser Ser Ile Trp
850 855 860

tga ctt ttg ttt ttc aaa aaa aaa aaa aaa aaa 2625
Leu Leu Phe Phe Lys Lys Lys Lys Lys Lys
865 870

<210> 2
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<212> PRT
<213> Gossypium hirsutum

<220>
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<222> (414)..(414)
<223> The 'Xaa' at location 414 stands for Asn, Asp, His, or Tyr.

<220>
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Met Ala Glu Arg Ala Leu Thr Arg Val His Ser Leu Arg Glu Arg Leu
1 5 10 15

Asp Glu Thr Leu Leu Ala His Arg Asn Glu Ile Leu Ala Leu Leu Ser
20 25 30

Arg Ile Glu Gly Lys Gly Lys Gly Ile Leu Gln His His Gln Ile Ile
35 40 45

Leu Glu Phe Glu Ala Ile Pro Glu Glu Asn Arg Lys Lys Leu Ala Asn
50 55 60

Gly Ala Phe Phe Glu Val Leu Lys Ala Ser Gln Glu Ala Ile Val Leu
65 70 75 80

Pro Pro Trp Val Ala Leu Ala Val Arg Pro Arg Pro Gly Val Trp Glu
85 90 95

Tyr Ile Arg Val Asn Val His Ala Leu Val Val Glu Glu Leu Thr Val
100 105 110

Ala Glu Tyr Leu His Phe Lys Glu Glu Leu Val Asp Gly Ser Ser Asn
115 120 125

Gly Asn Phe Val Leu Glu Leu Asp Phe Glu Pro Phe Asn Ser Ser Phe
130 135 140

Pro Arg Pro Thr Leu Ser Lys Ser Ile Gly Asn Gly Val Glu Phe Leu
145 150 155 160

Asn Arg His Leu Ser Ala Lys Leu Phe His Asp Lys Glu Ser Met His
165 170 175

Pro Leu Leu Glu Phe Leu Arg Val His Cys His Lys Gly Lys Asn Met
180 185 190

Met Leu Asn Asp Arg Ile Gln Asn Leu Asn Ala Leu Gln His Val Leu
195 200 205

Arg Lys Ala Glu Glu Tyr Leu Gly Thr Leu Pro Pro Glu Thr Pro Cys
210 215 220

Ala Glu Phe Glu His Arg Phe Gln Glu Ile Gly Leu Glu Arg Gly Trp
225 230 235 240

Gly Asp Thr Ala Glu Arg Val Leu Glu Met Ile Gln Leu Leu Leu Asp
245 250 255

Leu Leu Glu Ala Thr Asp Pro Cys Thr Leu Glu Lys Phe Leu Gly Arg
260 265 270

Ile Pro Met Val Phe Asn Val Val Ile Leu Thr Pro His Gly Tyr Phe
275 280 285

Ala Gln Asp Asn Val Leu Gly Tyr Pro Asp Thr Gly Gly Gln Val Val
290 295 300

Tyr Ile Leu Asp Gln Val Arg Ala Leu Glu Asn Glu Met Leu Leu Arg
 305 310 315 320

Ile Lys Gln Gln Gly Leu Asn Ile Thr Pro Arg Ile Leu Ile Ile Thr
 325 330 335

Arg Leu Leu Pro Asp Ala Val Gly Thr Thr Cys Gly Gln Arg Leu Glu
 340 345 350

Lys Val Tyr Gly Thr Glu His Ser Asp Ile Leu Arg Val Pro Phe Arg
 355 360 365

Thr Glu Lys Gly Ile Val Arg Lys Trp Ile Ser Arg Phe Glu Lys Val
 370 375 380

Trp Pro Tyr Leu Glu Thr Tyr Thr Glu Asp Val Ala His Glu Ile Ser
 385 390 395 400

Lys Glu Leu His Gly Thr Pro Asp Leu Ile Ile Gly Asn Xaa Ser Asp
 405 410 415

Gly Asn Ile Val Ala Ser Leu Leu Ala His Lys Leu Gly Val Thr Gln
 420 425 430

Cys Thr Ile Ala His Ala Leu Glu Lys Thr Lys Tyr Pro Asp Ser Asp
 435 440 445

Ile Tyr Trp Lys Lys Leu Glu Asp Lys Tyr His Phe Ser Cys Gln Phe
 450 455 460

Thr Ala Asp Leu Phe Ala Met Asn His Thr Asp Phe Ile Ile Thr Ser
 465 470 475 480

Thr Phe Gln Glu Ile Ala Gly Ser Lys Asp Thr Val Gly Gln Tyr Glu
 485 490 495

Ser His Thr Ala Phe Thr Leu Pro Gly Leu Tyr Arg Val Val His Gly
 500 505 510

Ile Asp Val Phe Asp Pro Lys Phe Asn Ile Val Ser Pro Gly Ala Asp
 515 520 525

Met Glu Ile Tyr Phe Pro Tyr Thr Glu Glu Lys Arg Arg Leu Lys His
530 535 540

Phe His Pro Glu Ile Glu Asp Leu Leu Tyr Thr Lys Val Glu Asn Glu
545 550 555 560

Glu His Leu Cys Val Leu Asn Asp Arg Asn Lys Pro Ile Leu Phe Thr
565 570 575

Met Pro Arg Leu Asp Arg Val Lys Asn Leu Thr Gly Leu Val Glu Trp
580 585 590

Cys Gly Lys Asn Pro Lys Leu Arg Glu Leu Ala Asn Leu Val Val Val
595 600 605

Gly Gly Asp Arg Arg Lys Glu Ser Lys Asp Leu Glu Glu Lys Ala Glu
610 615 620

Met Lys Lys Met Phe Glu Leu Ile Asp Lys Tyr Asn Leu Asn Gly Gln
625 630 635 640

Phe Arg Trp Ile Ser Ser Gln Met Asn Arg Ile Arg Asn Val Glu Leu
645 650 655

Tyr Arg Tyr Ile Cys Asp Thr Lys Gly Ala Phe Val Gln Pro Ala Leu
660 665 670

Tyr Glu Ala Phe Gly Leu Thr Val Val Glu Ala Met Thr Cys Gly Leu
675 680 685

Pro Thr Phe Ala Thr Cys Asn Gly Gly Pro Ala Glu Ile Ile Val His
690 695 700

Gly Lys Ser Gly Phe Asn Ile Asp Pro Tyr His Gly Asp Gln Ala Ala
705 710 715 720

Asp Ile Leu Val Asp Phe Phe Glu Lys Cys Lys Lys Asp Pro Ser His
725 730 735

Trp Asp Lys Ile Ser Gln Gly Gly Leu Lys Arg Ile Glu Glu Lys Tyr
740 745 750

Thr Trp Lys Ile Tyr Ser Glu Arg Leu Leu Thr Leu Thr Gly Val Tyr
755 760 765

Gly Phe Trp Lys His Val Ser Asn Leu Glu Arg Arg Glu Ser Arg Arg
 770 775 780

Tyr Leu Glu Met Phe Tyr Ala Leu Lys Tyr Arg Lys Leu Ala Glu Ser
 785 790 795 800

Val Pro Leu Ala Glu Glu
 805

<210> 3
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 <212> PRT
 <213> Gossypium hirsutum

<220>
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Ile Glu Pro Val Lys
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<210> 4
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 <213> Gossypium hirsutum

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His Trp Ala Gly Phe Ser Trp Arg Ile Ile Phe Cys Phe Val Ile Ser
 1 5 10 15

Ile Gly Glu Ala Pro Leu Tyr Phe Ile Leu Ser Phe Pro Phe Pro Phe
 20 25 30

Phe Ala Gly Ile Val
 35

<210> 5
 <211> 10
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 <213> Gossypium hirsutum

<220>
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<222> (1240)..(1240)
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<400> 5

Thr Trp Gly Cys Ala Pro Val Asn Ser Ser
1 5 10

<210> 6
<211> 10
<212> PRT
<213> Gossypium hirsutum

<220>
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<222> (1240)..(1240)
<223> n = any nucleotide (a,g,c,t)

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Leu Leu Phe Phe Lys Lys Lys Lys Lys Lys
5 10